

**Notice of Allowability**

Application No.

10/761,383

Examiner

Peter J. Macchiarolo

Applicant(s)

LEE ET AL.

Art Unit

2879

**-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--**

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to 01/22/2004.
2. ☒ The allowed claim(s) is/are 1-12.
3. ☐ The drawings filed on \_\_\_\_\_ are accepted by the Examiner.
4. ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All b) ☐ Some\* c) ☐ None of the:
1. ☒ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

\* Certified copies not received: \_\_\_\_\_.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.

**THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.**

5. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
6. ☒ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
- (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
- 1) ☐ hereto or 2) ☐ to Paper No./Mail Date \_\_\_\_\_.
- (b) ☒ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date 0305.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
7. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

**Attachment(s)**

- |   |   |
|---|---|
| 1. <input checked="" type="checkbox"/> Notice of References Cited (PTO-892)   | 5. <input type="checkbox"/> Notice of Informal Patent Application (PTO-152)           |
| 2. <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)                                | 6. <input type="checkbox"/> Interview Summary (PTO-413),<br>Paper No./Mail Date _____ |
| 3. <input type="checkbox"/> Information Disclosure Statements (PTO-1449 or PTO/SB/08),<br>Paper No./Mail Date _____ | 7. <input checked="" type="checkbox"/> Examiner's Amendment/Comment                   |
| 4. <input type="checkbox"/> Examiner's Comment Regarding Requirement for Deposit<br>of Biological Material          | 8. <input checked="" type="checkbox"/> Examiner's Statement of Reasons for Allowance  |
|   | 9. <input type="checkbox"/> Other _____   |

**DETAILED ACTION**

***Acknowledged Receipt***

1. Receipt is acknowledged of the preliminary amendment filed on 01/22/2004 which has been considered and entered.

***Examiner's Amendment***

2. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee. Authorization for this examiner's amendment was given in a telephone interview with Ester Chong on March 17, 2005.
3. The following changes to the drawings have been approved by the examiner and agreed upon by applicant:
  - a. Change the x-axis designation in the top graph of Figure 3 from " $\Delta x/d$ " to " $\Delta y/d$ "
4. In order to avoid abandonment of the application, applicant must make these above agreed upon drawing changes.
5. The application has been amended as follows:
6. Change the abstract to the below marked up version.

b. ~~The present invention relates to a color cathode ray tube and more specifically to a color cathode ray tube having a panel structure which provide characteristic of explosion proof while cutting down on expenses and weight.~~

A cathode ray tube according to an embodiment 4 of the present invention ~~comprising:~~ includes a panel having an effective screen; a funnel connected to the panel; and an electron gun to generate electron beams; ~~wherein said~~ beams. The effective screen has a horizontal and vertical ratio of 16:9; and ~~said~~ the panel satisfies a condition:  $[(\Delta y/d) \times 100] \leq 5.65$ , wherein d is length from a central point G to a diagonal vertex E of ~~said~~ the effective screen, and  $\Delta y$  is length from a point H to an intersection point of the outline of the panel and the shorter axis Y, the point H being intersection of shorter axis Y and a longer side of ~~said~~ the effective screen.

*Allowable Subject Matter*

7. Claims 1-12 are allowed.
8. Regarding claim 1, the prior art fails to teach or suggest the 16:9 panel satisfies a condition  $[(\Delta y/d) \times 100] \leq 5.65$ , in combination with the remaining limitations of the claims.
9. Regarding claim 7, the prior art fails to teach or suggest the 4:3 panel satisfies a condition  $[(\Delta y/d) \times 100] \leq 5.05$ , in combination with the remaining limitations of the claims.
10. Claims 2-6, and 8-12 are allowable due to their dependency.
11. Any comments considered necessary by the Applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the

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issue fee. Such submissions should be clearly labeled "Comments on Statement of reasons for Allowance."

### *Conclusion*

12. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

13. USPN 6307314 to Sano et al discloses  $[(\Delta y/d) \times 100] = 13.8$  for both a 3:4 and 16:9 screen, and no motivation exists to modify the panel to meet Applicant's equality value.

14. USPN 6608454 to Shimizu et al is silent to any actual measurements, and the disclosed ratios cannot be inferred to meet Applicant's equality value.

15. USPN 6693374 to Tho et al shares a common assignee to the instant invention, does not meet the date for 102(e), and therefore does not qualify as prior art.

16. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Peter J Macchiarolo whose telephone number is (571) 272-2375. The examiner can normally be reached on 8:30 - 5:00, M-F.

17. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Nimeshkumar D Patel can be reached on (571) 272-2475. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

18. Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR

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system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

A handwritten signature in black ink, appearing to be "PJW", is written over a faint, circular stamp.

*Joseph Williams*  
**JOSEPH WILLIAMS**  
**PRIMARY EXAMINER**